

# *CD-RW Drive*

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## *External USB*

### **CD-RW Drive** **External USB**

User's Guide  
Mode d'emploi  
Bedienungsanleitung  
Manual de instrucciones  
Manuale d'istruzione

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## Owner's Record

The model and serial numbers are located on the bottom of the drive. Record these numbers in the spaces provided below. Refer to them whenever you call upon your sales representative regarding this product.

Model No. \_\_\_\_\_ Serial No. \_\_\_\_\_

## Safety Regulations

### WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

### Caution:

As the laser beam in this CD-RW drive is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

The use of optical instruments with this product will increase eye hazard.

The use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation.

**DANGER**  
INVISIBLE LASER RADIATION WHEN OPEN.  
AVOID DIRECT EXPOSURE TO BEAM.  
**VORSICHT**  
UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG  
GEÖFFNET.  
NICHT DEM STRAHL AUSSETZEN.

This label is located on the drive unit's internal chassis.

**DANGER** INVISIBLE LASER RADIATION WHEN OPEN.  
AVOID DIRECT EXPOSURE TO BEAM.  
**DANGER** RADIATIONS INVISIBLES DU LASER EN CAS D'OUVERTURE.  
EVITER TOUTE EXPOSITION DIRECTE AU FAISCEAU.  
**VORSICHT** UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET.  
NICHT DEM STRAHL AUSSETZEN.  
**ADVARSEL** USYNLIG LASERSTRÅLING VED ÅBNING.  
UNDGÅ UDS/ETTELSE FOR STRÅLING.  
**ADVARSEL** USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES.  
UNNGÅ EKSPONERING FOR STRÅLEN.  
**VARNING** OSYNLIG LASERSTRÅLING NÅR DENNA DEL ÄR ÖPPNAD.  
STRÅLEN ÄR FARLIG.  
**VARO!** NÄKYMÄTÖN AVATTAESSA OLET ALTTINA LASERSÄTEILYLLE.  
ÄLÄ KATSO SÄTEESIN.

This label is located on the bottom of the drive unit enclosure.

This unit uses CD-R discs and CD-RW discs with the following mark.



This unit uses CD-ROM discs with the following mark.



When you use this unit as a CD player, use compact discs with the following mark.



You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

### Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CLASS 1  
LASER PRODUCT  
LASER KLASSE 1  
PRODUKT

This CD-RW drive unit is classified as a CLASS 1 LASER PRODUCT.

The CLASS 1 LASER PRODUCT label is located at the bottom of the enclosure.

### Trademarks

- MS-DOS/Windows/Windows 95/98/NT are registered trademarks of Microsoft Corporation.
- Pentium is a trademark of Intel Corporation.
- IBM PC, PC/XT and PC/AT are registered trademarks of International Business Machines Corporation.
- Apple, iMac, MacOS and Macintosh are registered trademarks of Apple Computer, Inc.
- PHOTO CD is a registered trademark of Eastman Kodak Company.

# Contents

<b>Introduction</b>	<b>5</b>
Features.....	5
System requirements .....	5
<b>Location of controls</b>	<b>6</b>
Front panel.....	6
Rear panel .....	6
<b>Precautions</b>	<b>7</b>
<b>Hardware Installation</b>	<b>8</b>
Step 1: USB (Universal Serial Bus) cable and connectors .....	8
Step 2: Attaching USB drive to PC .....	9
Step 3: Attaching USB drive to Mac .....	16
<b>Software Installation</b>	<b>18</b>
<b>Operating the drive</b>	<b>18</b>
Starting the drive.....	18
Opening the drawer manually in an emergency .....	19
<b>Troubleshooting</b>	<b>20</b>
A few words about the USB interface.....	20
Troubleshooting table .....	20
Service contact in Europe.....	21
<b>Specifications</b>	<b>21</b>

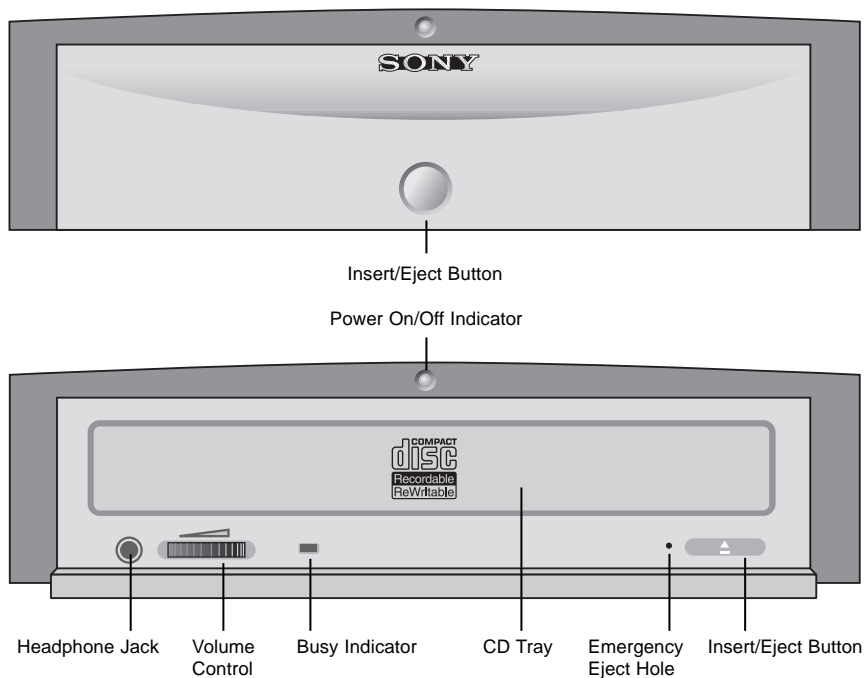
# Introduction

<b>Features</b>	The external CD-RW has the following features:
<b>General</b>	<ul style="list-style-type: none"><li>• Transportable external drive with Universal Serial Bus (USB) interface</li><li>• Hot Plug-n-Play compatible</li><li>• Integrated buffer memory</li><li>• Power tray loading and ejection of disc (manual eject too)</li><li>• Housed in an airtight frame casing</li></ul>
<b>Formats and modes supported</b>	<ul style="list-style-type: none"><li>• CD-ROM (Mode 1), CD-ROM XA (Mode 2 form 1 &amp; 2 data)</li><li>• PHOTO-CD (reads only) &amp; Video-CD, CD-I (Mode 2, form 1 and 2)</li><li>• CD-Digital Audio, CD-EXTRA and CD-I Ready (reads only)</li><li>• CD-TEXT, CD-Recordable (CD-R), &amp; CD-ReWritable (CD-RW)</li></ul>
<b>Audio</b>	<ul style="list-style-type: none"><li>• Audio output and headphone jack for audio CD playback</li></ul>
<b>Note:</b>	This manual provides step-by-step instructions for drive installation. Please read carefully and thoroughly before attempting installation and save it for future reference.
<b>System requirements</b>	
<b>Windows PC</b>	<ul style="list-style-type: none"><li>• IBM-compatible PC, Pentium 233 MHz or higher</li><li>• Windows 98</li><li>• 32MB of RAM or more</li><li>• Available USB port</li><li>• 3.5" floppy disk drive &amp; a mouse (Microsoft compatible)</li><li>• Installation requires 125MB of free hard disk drive space</li></ul>
<b>MacOS</b>	<ul style="list-style-type: none"><li>• Apple iMac or USB equipped G3</li><li>• Available USB port</li><li>• 32 MB of RAM or more</li><li>• MacOS 8.5 (USB manager 1.1) or higher</li></ul>
<b>IMPORTANT NOTE:</b>	For best results, Sony CD-R and CD-RW media should be used. Problem free operation cannot be guaranteed with other media.

## Location of controls

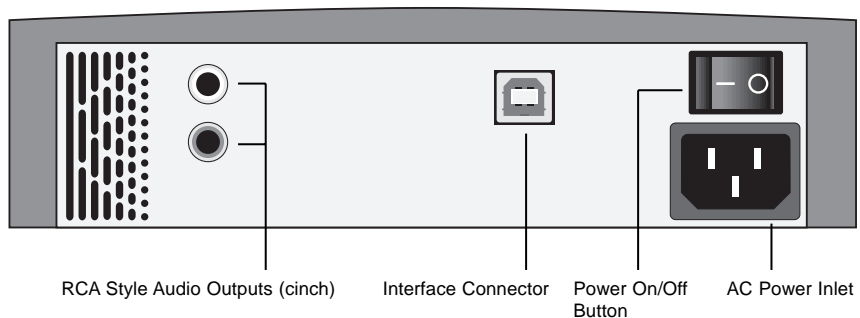
### Front panel

The front panel controls are described below.



### Rear panel

The rear panel controls and connectors are described below.



## Precautions

### ■ Installation

- Avoid placing the drive in a location subject to:
  - high humidity
  - high temperature
  - excessive dust
  - mechanical vibration
  - direct sunlight

### ■ Operation

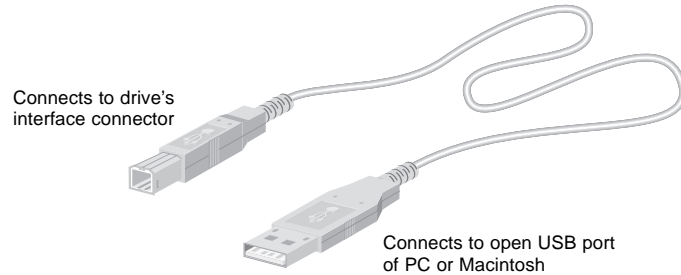
- Do not move drive during operation, it may cause an error.
- Avoid sudden temperature changes, condensation may form inside the drive. Should ambient temperature suddenly change, wait at least 1 hour before turning off power. Operation directly after a temperature change may cause a malfunction.
- Do not place beverages near drive, extending the tray may spill them.

### ■ Transportation

- Close the disc drawer before moving the drive.
- Keep the original packing materials for future drive transport.

# Hardware installation

## Step 1: USB (Universal Serial Bus) cable and connectors



The USB is easy to use and requires no adjustment of computer settings.

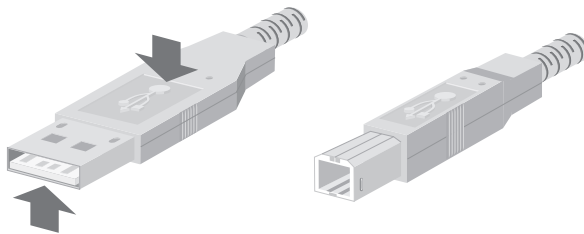
USB ports and cables are identified by the USB symbol.



One advantage of the USB connector is that it may only be inserted one way. Atop the connector is a USB symbol.

### To attach the port connector of the USB cable:

- Keep USB symbol up and insert it into the USB port. Interlocking tongue elements hold the USB cable and port together.



### To remove the USB port connector:

- Grasp the port connector and pull to remove.

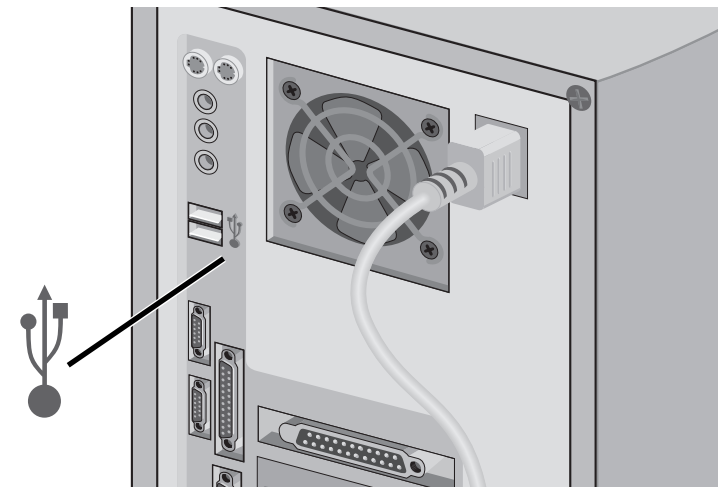
## Step 2: Attaching USB drive to PC

Unpack the included materials and locate the USB port on the drive.



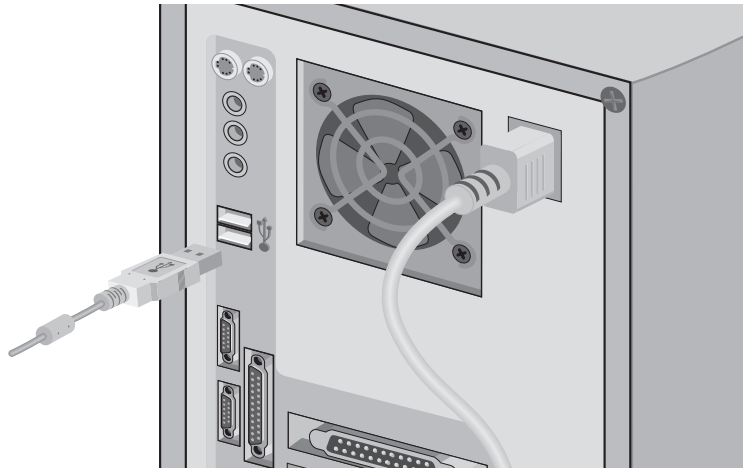
Attach the USB and power cable to the drive, then plug in the power cable to an electrical outlet and switch on the external unit.

Next, locate the USB connector on the PC.



Insert the port connector of the USB cable into the PC's USB port.

**Note:** If no USB connector(s) available (already in use), see Troubleshooting, page 20.



Then Windows will display the following message:



**Note:**

This will only appear the first time a USB device is connected.

Click the **Next>** button, then the following screen should appear:



Accept the default and click **Next>**, the following message appears:



Insert the floppy USB driver diskette and click **Next>** or select **CD-ROM drive**, (see below) and click **Next>**.



The following message appears for the driver on floppy option (path may differ). Click **Next>**.



The following message appears indicating that the installation almost complete.

Click on **Finish** to complete the installation.



Now USB adapter driver will begin its installation automatically with:

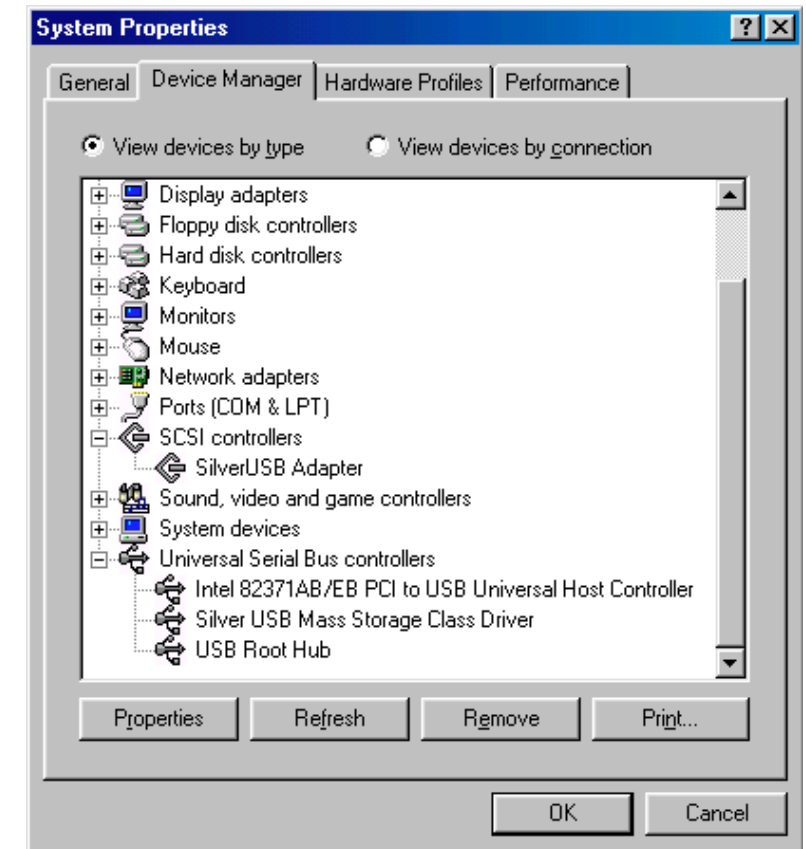


Click **Next>**, which will bring up the following screen:



Then click **Finish** and check **System Properties\*** (Device Manager) screen to assure proper installation. It should appear as illustrated.

\*System Properties is found by moving the cursor to My Computer icon, then clicking the opposite mouse button and selecting Properties.



The USB drive is now ready to use!  
PC users skip Step 3, it is for Mac customers.



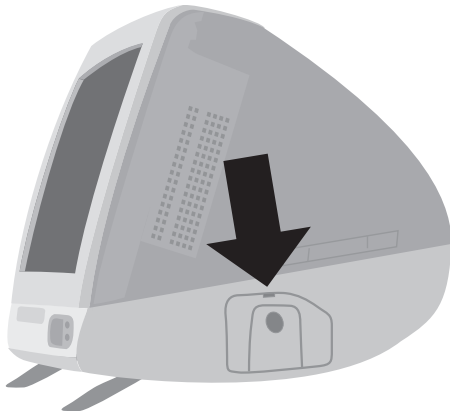
### Step 3: Attaching USB drive to Mac

The following example will be for an iMac. G3 computers equipped with USB have a visible connector on the back, much like a PC.

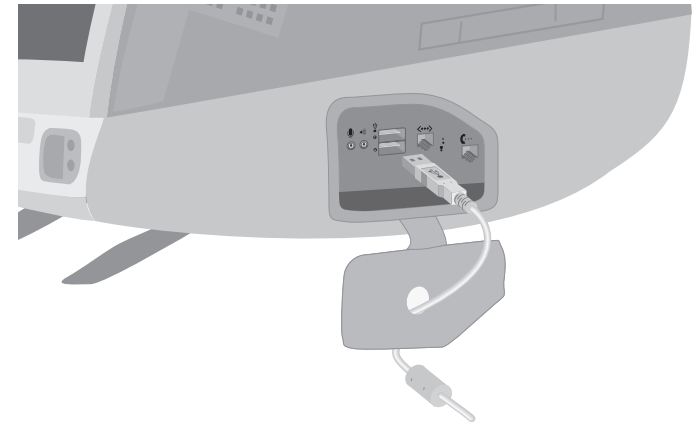
- A** Unpack the included materials and locate the USB port symbol on the drive.
- B** Attach power cable, then USB cable to drive's USB interface connector.



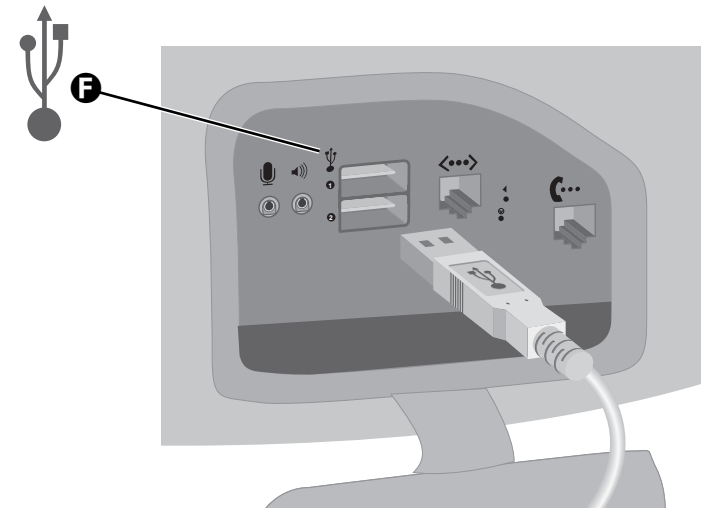
- C** Switch the drive on.
- D** Open cover to iMac ports.



- E** Thread USB cable through the opening in the cover.



- F** Locate the port with a USB symbol.
- G** Insert USB port connector into USB port of the iMac computer.



- H** Insert the "Mac Software" CD in the built-in CD-ROM drive and follow the installation instructions.
- I** The USB drive is now ready to use!

# Software Installation

Please refer to the CD-RW formatting software manual (on software CD) for instruction on software installation. Formatting software must first be properly installed in order to write CD's with this drive.

## Operating the drive

### Starting the drive

- 1 Turn on the drive.
- 2 Press the eject button and the drive's tray extends.  
**Note:** Eject button does not function if software disabled.
- 3 Place a disc in the drive tray with label side facing up.  
**Note:** When used vertically, disc locks prevent disc from falling.
- 4 Gently press tray or eject button to close the tray. Drive may begin reading Lead in Data as it accepts disc. Busy indicator lights amber while reading Lead in Data. For subsequent drive operation, see software instructions.

**Note:** Busy indicator stays lighted if:

- the disc is not properly placed on loading tray
- a malfunction occurs

In either case, eject the disc and replace it in the loading tray assuring it sits properly in the tray. Should this not resolve the problem, contact the local dealer or qualified service personnel.

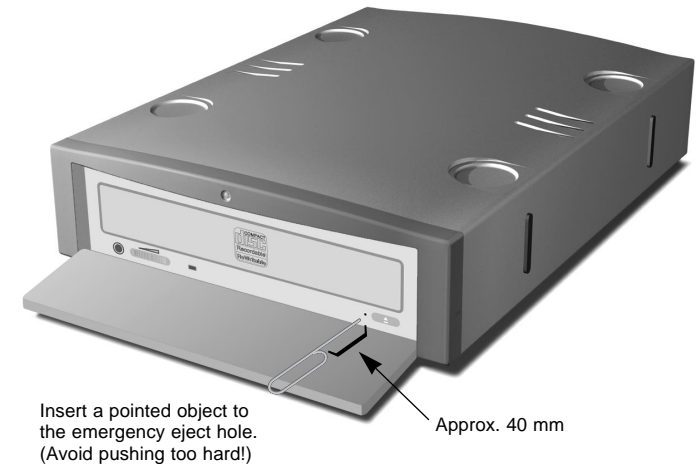
**Caution:** Do not forcibly close disc tray. Excessive force may damage the mechanism, which is designed to operate at a "feather touch."

- 5 To eject media, simply press eject button and tray will extend from drive.

### Opening the tray manually in an emergency

The tray may be manually opened if it fails to come out by means of eject button or software command.

- 1 Turn off and unplug the USB drive.
- 2 Insert a pointed object, like a paper clip, into the emergency eject hole and push (typical force 46 N [4.7kg]).



After an emergency removal, consult dealer or qualified service personnel.

# Troubleshooting

Problems installing or operating the CD-RW drive? Please review:

- 1 Has the prescribed installation procedure been followed?
- 2 Please verify the power supply cable is attached to drive and that the tray responds to the eject button.
- 3 See the "Troubleshooting Table" section below.

## A few words about the USB interface

Because the USB interface allows for connection and disconnection while the computer is running, it is easy to overlook whether the unit is connected. Please assure the unit is connected before conducting other troubleshooting steps.

## Troubleshooting table

Symptom	Question	Actions
Cannot access the device through software?	Are both ends of the USB connected?	<b>WINDOWS:</b> Use the Device Manager in the Windows Control Panel to verify the drive is "seen".
	Power switched on?	<b>MAC:</b> Use the CD Software to verify the drive is "seen".
	Power cable connected?	Once the connections are verified restart the computer.  Always verify that cable connections are seated properly by taking the connector off and reseating. Improper connections are the most common point of failure with peripheral devices.
No free USB port		Purchase a USB hub (powered version preferred)

## Service contacts in Europe

Should further support or service be required, please contact the local technical support professionals.

For Europe (German or English) contact the hotline at:

Tel.: +49 (0) 2389 - 951047 or SONY-HOTLINE@SUPLIE.COM  
(Monday – Thursday, 8:00 am – 4:30 pm / Friday, 8:30 am – 2:00 pm)

For DK, N, SW & FIN, please call: Tel. +47 (0) 6281 8666  
(Monday – Friday, 8:30 am to 4:00 pm Norwegian time)

Within the UK, please call: Tel. 0870 900 8166  
(Monday – Friday, 8:45 am to 5:00 pm)

For France, please call: +33 (0) 155 870 866  
(Monday – Friday, 9:00 am to 6:00 pm) or E-Mail: sony\_hl@nati.fr

For Italy: Tel.: (+39) 02-61838500  
(Monday – Friday, 8:30 am – 12:45 pm and 2:00 pm – 4:30 pm) or  
e-mail: servizio.consumatori@ccmail.eu.sony.co.jp

All this information and more can be downloaded at:

<http://www.sony-cp.com/cd-rw>

# Specifications

### General

Data transfer rate	
Sustained	6X max (900 kB/s)
Burst	1.2 MB/s

### Environmental conditions

Humidity	10% to 90% (Max. wet bulb 29°C)
Atmosphere	Non-condensing
Temperature	5° C to 45° C (41° F to 113° F)
Non-operating / Storage Temperature	-30°C to 50°C (-22° F to 122° F)

### Mass

2.24 kg

### Dimensions

205 x 66 x 277 mm

Design and specifications are subject to change without notice.